



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-07-09-09 **Date:** 12-07-2018
Customer : Assistant Executive Engineer, Yelahanka Satellite town Sub division, BBMP, Bangalore.
Address : Yelahanka Satellite town Sub division, BBMP, Bangalore.
Project Name : Improvements and asphaltting to balance roads at Thirumalanagara and Muneshwara layout in ward No.03
Agency : Sri. H.S.Palakshamurthy No.1, 2nd Main, BDA layout, Pattagara Palya, Prashanthnagara, Bangalore
Customer's Reference : EE(YNK.D)E-PMT-16/W.O/000134/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 09-07-2018
Sample ID No : 2018-07-09-09 /01
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
 IS 4031 (Part 1,2,3,4,5, 6,11):1988
 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
 IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
 IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
Date of test : 10-07-2018
Environmental Conditions during test : Temperature: 26°C
 Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	—
2	Finess by Air permeability method (m ² /kg, Min)	285.4	225m ² /kg, Min
3	Density (gm/cc)	3.12	—
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.
 All information furnished by Customer/Representative
 Any correction in the report will make this report invalid
 This report without prior written approval should not be reproduced or published in full or part.
 Samples will be disposed after 90 days from the date of issue of test certificate

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FOR CIVIL Pro.

R. Karthik Rechan



R KARTHIK RECHAN
 Authorized Signatory
 Quality Manager